

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/29457

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60N2/06 B60N2/36		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B60N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 270 140 B1 (FIEROH LAWRENCE A ET AL) 7 August 2001 (2001-08-07)	1-3, 12
Y	abstract; figures 1-5	9, 10
Y	US 5 498 051 A (PATTOK MARK A ET AL) 12 March 1996 (1996-03-12)	9, 10
A	abstract; figures 1-4	1, 12
X	DE 100 58 906 A (BROSE FAHRZEUGTEILE) 6 June 2002 (2002-06-06)	1-5, 12
Y	abstract; figures 1-3	6-8
Y	US 5 158 338 A (HONMA MIKIO ET AL) 27 October 1992 (1992-10-27)	6-8
A	abstract; figures 1-4	1, 12
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search 12 December 2003		Date of mailing of the international search report 19/12/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Gatti, C

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/29457

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 100 27 063 A (BROSE FAHRZEUGTEILE) <del>6</del> December 2001 (2001-12-06)	1-3, 12
A	abstract; figures 1-6C ----	9
X	EP 0 970 844 A (JOHNSON CONTROLS GMBH) <del>12</del> January 2000 (2000-01-12)	1-3, 12
A	abstract; figures 1-4 ----	9
X	EP 0 940 288 A (MAZDA MOTOR) <del>8</del> September 1999 (1999-09-08)	1-3, 12
	abstract; figures 1-7 ----	
X	FR 2 811 620 A (RENAULT) <del>18</del> January 2002 (2002-01-18)	1-3, 12
A	abstract; figures 1-4 ----	9
X	FR 2 645 810 A (PEUGEOT ; CITROEN SA (FR)) <del>19</del> October 1990 (1990-10-19)	1, 2, 12
A	abstract; figures 1-10 ----	9
A	FR 2 735 081 A (PEUGEOT) 13 December 1996 (1996-12-13)	1, 12
	abstract; figures 1-4 ----	
A	US 4 949 931 A (IRIE HIDEKI ET AL) <del>21</del> August 1990 (1990-08-21)	6-8
	abstract; figures 2-7 ----	
A	DE 43 42 438 C (DAIMLER BENZ AG) <del>11</del> May 1995 (1995-05-11) -----	

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/US 03/29457

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6270140	B1	07-08-2001	EP 0996554 A1	03-05-2000
			EP 1003404 A1	31-05-2000
			WO 9903702 A1	28-01-1999
			WO 9903703 A1	28-01-1999
			WO 9903377 A1	28-01-1999
			US 6378941 B1	30-04-2002
US 5498051	A	12-03-1996	NONE	
DE 10058906	A	06-06-2002	DE 10058906 A1	06-06-2002
US 5158338	A	27-10-1992	JP 1908606 C	24-02-1995
			JP 3235725 A	21-10-1991
			JP 6039231 B	25-05-1994
DE 10027063	A	06-12-2001	DE 10027063 A1	06-12-2001
			WO 0189873 A1	29-11-2001
			EP 1289793 A1	12-03-2003
			EP 1329355 A1	23-07-2003
EP 0970844	A	12-01-2000	DE 29810333 U1	14-10-1999
			EP 0970844 A1	12-01-2000
EP 0940288	A	08-09-1999	JP 11245695 A	14-09-1999
			EP 0940288 A2	08-09-1999
			US 2002153740 A1	24-10-2002
			US 6129405 A	10-10-2000
			US 2002011737 A1	31-01-2002
FR 2811620	A	18-01-2002	FR 2811620 A1	18-01-2002
			DE 10133241 A1	23-05-2002
FR 2645810	A	19-10-1990	FR 2645810 A1	19-10-1990
FR 2735081	A	13-12-1996	FR 2735081 A1	13-12-1996
US 4949931	A	21-08-1990	JP 1921438 C	07-04-1995
			JP 2081738 A	22-03-1990
			JP 6045322 B	15-06-1994
DE 4342438	C	11-05-1995	DE 4342438 C1	11-05-1995
			GB 2284755 A , B	21-06-1995
			US 5593208 A	14-01-1997